

Application No. 10/673,784
Amendment "A" dated October 18, 2005
Preliminary Amendment

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-5. (canceled).

Claim 6. (New) A communication system comprising a base station and a mobile station, wherein

the base station comprises:

measurement means for measuring uplink interference power at the base station;

and

transmission means for transmitting information on the measured uplink interference power at the base station and transmission power of a perch channel transmitted by the base station to the mobile station as information to which the mobile station refers at a time when the mobile station conducts random access to the base station,

and the mobile station comprises:

reception means for receiving the transmitted information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station from the base station;

decision means for deciding initial transmission power at the time when the

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mobile station conducts random access to the base station by using the received information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station; and

random access means for conducting random access to the base station at the decided initial transmission power.

Claim 7. (New) A base station comprising:

measurement means for measuring uplink interference power at the base station; and transmission means for transmitting information on the measured uplink interference power at the base station and transmission power of a perch channel transmitted by the base station to a mobile station as information to which the mobile station refers at a time when the mobile station conducts random access to the base station.

Claim 8. (New) A mobile station comprising:

reception means for receiving information on uplink interference power at a base station and transmission power of a perch channel transmitted by the base station from the base station; decision means for deciding initial transmission power at a time when the mobile station conducts random access to the base station by using the received information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station; and

random access means for conducting random access to the base station at the decided initial transmission power.

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Claim 9. (New) A communication method at communication system comprising a base station and a mobile station, comprising:

a measurement step of measuring, at the base station, uplink interference power at the base station; and

a transmission step of transmitting, at the base station, information on the measured uplink interference power at the base station and transmission power of a perch channel transmitted by the base station to the mobile station as information to which the mobile station refers at a time when the mobile station conducts random access to the base station;

a reception step of receiving, at the mobile station, the transmitted information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station from the base station;

a decision step of deciding, at the mobile station, initial transmission power at the time when the mobile station conducts random access to the base station by using the received information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station; and

a random access step of conducting, at the mobile station, random access to the base station at the decided initial transmission power.

Claim 10. (New) A communication method at a base station comprising:

a measurement step of measuring uplink interference power at the base station; and

a transmission step of transmitting information on the measured uplink interference power at the base station and transmission power of a perch channel transmitted by the base

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station to a mobile station as information to which the mobile station refers at a time when the mobile station conducts random access to the base station.

Claim 11. (New) A communication method at a mobile station comprising:

 a reception step of receiving information on uplink interference power at a base station and transmission power of a perch channel transmitted by the base station from the base station;

 a decision step of deciding initial transmission power at a time when the mobile station conducts random access to the base station by using the received information on the uplink interference power at the base station and the transmission power of the perch channel transmitted by the base station; and

 a random access step of conducting random access to the base station at the decided initial transmission power.